



Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

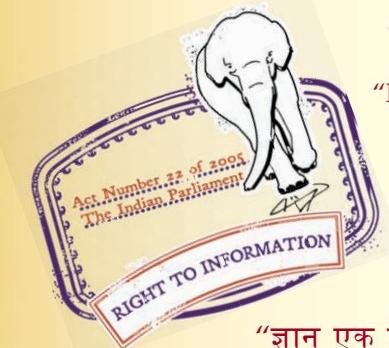
“Step Out From the Old to the New”

IS 1247 (1987) : Handloom Cotton Madras Check [TXD 8 :
Handloom and Khadi]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaran Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



BLANK PAGE



PROTECTED BY COPYRIGHT

IS : 1247 - 1987

Indian Standard

SPECIFICATION FOR
HANDLOOM COTTON MADRAS CHECK

(*First Revision*)

UDC 677.21'074.164.3

© Copyright 1987

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9, RAHADUR SHAH ZAFAR MARG,
NEW DELHI 110002

Gr 2

October 1987

Indian Standard

SPECIFICATION FOR
HANDLOOM COTTON MADRAS CHECK

(*First Revision*)

Handloom and Khadi Sectional Committee, TDC 13

Chairman

Representing

DEVELOPMENT COMMISSIONER FOR Development Commissioner for Handlooms,
HANDLOOMS New Delhi

Vice-Chairman

DIRECTOR OF HANDLOOMS AND Directorate of Handlooms & Textiles, Govern-
TEXTILES ment of Tamil Nadu, Madras

Members

JOINT DIRECTOR OF HANDLOOMS
AND TEXTILES (*Alternate* to
Director of Handlooms and
Textiles)

SHRI A. T. BASAK

Directorate General of Supplies & Disposals
(Inspection Wing), New Delhi

SHRI B. D. DUBE (*Alternate*)

SHRI P. K. DAS

Directorate of Handloom & Textiles,
Government of West Bengal, Calcutta

SHRI SAMIR MUKHERJEE (*Alternate*)

SHRI O. P. DHAWAN

Silk & Rayon Textiles Export Promotion Council,
Bombay

SHRI L. DESI GOWDA

Indian Institute of Handloom Technology, Salem
National Handloom Development Corporation

SHRI Q. M. HUMAYUN

Ltd, Lucknow

SHRI D. JAYARAMAIAH

Development Commissioner for Handlooms,
New Delhi

DR M. N. U. KURUP

Ministry of Defence (DGI)

SHRI R. B. NASEKAR (*Alternate*)

SHRI T. MAHADEVAN

Handloom Export Promotion Council, Madras

SHRI B. N. MEHTA

Directorate of Industries, Government of
Haryana, Chandigarh

SHRI C. R. YADAV (*Alternate*)

(*Continued on page 2*)

© Copyright 1987
BUREAU OF INDIAN STANDARDS

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and
reproduction in whole or in part by any means except with written permission of the
publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

Members

SHRI K. S. MURTHI	<i>Representing</i> Khadi and Village Industries Commission, Bombay
SHRI R. S. KULKARNI (<i>Alternate</i>) SHRI N. BALAKRISHNAN NAIR	Kerala State Handloom Development Corporation Limited, Cannanore
SHRI P. VIJAYAN (<i>Alternate</i>) SHRI R. G. OWALEKAR	All India Federation of Co-op Spinning Mills Ltd, Bombay
SHRI M. G. RAJAN SHRI A. S. RAMA RAO (<i>Alternate</i>)	Textiles Committee, Bombay
SHRI K. RANGANATHAN	South India Textiles Research Association, Coimbatore
SHRI S. RANGARAJAN	Handicrafts and Handlooms Exports Corporation of India, Madras
SHRI H. R. RAO	Silk & Art Silk Mills' Research Association, Bombay
REGIONAL MANAGER	Andhra Pradesh State Handloom Weavers' Co-operative Society Ltd, Vijayawada
REPRESENTATIVE	Director of Handlooms, Government of Orissa, Bhubaneshwar
REPRESENTATIVE	J & K State Handloom Development Corporation Ltd, Srinagar
REPRESENTATIVE	Director of Handlooms, Government of Assam, Guwahati
REPRESENTATIVE SHRI K. K. ROHATGI	Apparels Export Promotion Council, New Delhi
SHRI M. P. SHARMA (<i>Alternate</i>) SECRETARY	Government of Uttar Pradesh
SHRI A. RAJAMANI (<i>Alternate I</i>) SHRI D. SENGUPTA (<i>Alternate II</i>)	All India Handloom Fabrics Marketing Co-operative Society Ltd, Bombay
SENIOR EXECUTIVE & SPECIAL OFFICER	Tamil Nadu Handloom Weavers' Co-operative Society Ltd, Madras
SENIOR MANAGER (DESIGN & PRODUCT DEVELOPMENT) (<i>Alternate</i>) SHRI R. I. MIDHA, Director (Tex)	Director General, BIS (<i>Ex-officio Member</i>)

Secretary

SHRI P. BHATNAGAR
Deputy Director (Tex), BIS

Handloom and Khadi Cotton Cloth Subcommittee, TDC 13 : 1

Convener

DIRECTOR, INDIAN INSTITUTE OF Development Commissioner for Handlooms,
HANDLOOM TECHNOLOGY, New Delhi
VARANASI

(Continued on page 8)

Indian Standard

SPECIFICATION FOR
HANDLOOM COTTON MADRAS CHECK

(*First Revision*)

O. F O R E W O R D

0.1 This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards on 4 May 1987, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textile Division Council.

0.2 This standard, which was first published in 1958, has been revised in order to specify the constructional particulars as in vogue presently. Other important change includes deletion of breaking strength values since the standard recommends the use of yarns conforming to IS : 171-1985*.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the constructional particulars and other requirements of handloom cotton Madras Check.

1.2 This standard does not specify the type of finish, general appearance, lustre and feel of cloth nor does it specify the colour or colour combination of check.

*Specification for cotton and cotton regenerated cellulosic fibre blended grey yarn (*third revision*).

†Rules for rounding off numerical values (*revised*).

2. MANUFACTURE

2.1 Yarn — The cotton yarn used in the manufacture of Madras Check cloth shall conform to the requirements of IS : 171-1985*.

2.2 Cloth — The cloth shall be free from substances liable to cause subsequent tendering.

3. REQUIREMENTS

3.1 The constructional particulars of Madras Check shall conform to those given in Table 1.

TABLE 1 CONSTRUCTIONAL PARTICULARS OF HANDLOOM COTTON MADRAS CHECK

SL No.	CHARACTERISTIC	REQUIREMENT		TOLERANCE	METHOD OF TEST
		Loomstate	Washed		
i)	Count of yarn (for guidance only)			—	—
	Cotton count (Tex):				
a)	Warp	60 ^s (9.8)	60 ^s (9.8)	—	—
b)	Weft	40 ^s (14.8)	40 ^s (14.8)	—	—
ii)	Number of threads per decimetre:				IS : 1963-1981*
a)	Ends	330	340	± 5 percent	
b)	Picks	330	340	± 5 percent	
iii)	Mass, g/m ²	90	85	± 5 percent	IS : 1964-1970†
iv)	Dimensions:				IS : 1954-1969‡
a)	Length, m	As agreed		Not less than as declared or marked	
b)	Width, cm	As agreed		—2 percent	
v)	Weave	Plain	Plain	—	Visual

*Methods for determination of threads per unit length in woven fabrics (*second revision*).

†Methods for determination of weight per square metre and weight per linear metre of fabrics (*first revision*).

‡Methods for determination of length and width of fabrics (*first revision*).

*Specification for cotton and cotton regenerated cellulosic fibre blended grey yarn (*third revision*).

3.2 The cloth shall also conform to the requirements given in Table 2.

TABLE 2 REQUIREMENTS OF HANDLOOM COTTON MADRAS CHECK

SL No.	CHARACTERISTIC	REQUIREMENT	METHOD OF TEST
i)	Colour fastness rating to:		
a)	Light	4 or better	IS : 686-1985* or IS : 2454-1985†
b)	Washing : Test 4		
1)	Change in colour	4 or better	IS : 765-1979‡
2)	Staining on cotton	4 or better	
c)	Bleaching:		
1)	Change in colour	4 or better	IS : 762-1956§
2)	Staining on cotton	4 or better	
ii)	Dimensional changes, percent, <i>Max</i>		IS : 2977-1964
a)	Loomstate:		
1)	Warpway	5	
2)	Weftway	2	
b)	Washed:		
1)	Warpway	2.5	
2)	Weftway	1	
iii)	Scouring loss, percent, <i>Max</i>		IS : 1383-1977¶
1)	Loomstate	8	
2)	Washed	2.5	

*Method for determination of colour fastness of textile materials to day light (*first revision*).

†Method for determination of colour fastness of textile materials to artificial light (xenon lamp) (*first revision*).

‡Methods for determination of colour fastness of textile materials to washing: Test 4 (*second revision*).

§Method for determination of colour fastness of textile materials to hypochlorite bleaching.

||Methods for determination of dimensional changes of woven fabrics (other than wool) on soaking in water.

¶Methods for determination of scouring loss in grey and finished cotton textile materials (*first revision*).

3.3 If, in order to illustrate or specify the type of finish, general appearance, lustre and feel of cloth or to specify the colour or colour

combination of check, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respect.

3.3.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

4. INSPECTION

4.1 The cloth, when visually inspected, shall be reasonably free from following defects:

- a) More than two adjacent ends running parallel, broken or missing and extending beyond 20 cm;
- b) Weft crack or more than two missing picks across the width of the material;
- c) Prominently noticeable weft bar due to the difference in raw material, count, twist, lustre, etc;
- d) Noticeable selvedge defects;
- e) Noticeable warp or weft float in the body;
- f) Noticeable oil and other stains;
- g) Noticeable hole, cut or tear up to 3 mm size;
- h) Smash rupturing the texture of the fabric;
- j) Undressed snarls noticeable throughout the piece;
- k) Conspicuous gout due to foreign matter usually lint or waste woven;
- m) Conspicuous broken pattern;
- n) Prominently noticeable dyeing defects; and
- p) Any other flaw which would mar the appearance or affect the serviceability and/or durability of cloth.

4.1.1 A reference may be made to IS : 4125-1967* for details of these defects.

5. MARKING

5.1 The cloth shall be marked with the following:

- a) Name of the material;

*Glossary of terms pertaining to defects in fabric.

- b) Manufacturer's name, initials or trade-mark, if any; and
- c) Length (m) and width (cm) of the piece.

5.1.1 The cloth may also be marked with the Standard Mark.

NOTE — The use of the Standard Mark is governed by the provisions of the Bureau of Indian Standards Act 1986 and the Rules and Regulations made thereunder. The Standard Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by BIS and operated by the producer. Standard marked products are also continuously checked by BIS for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

6. PACKING

6.1 Unless otherwise agreed upon by the buyer and the seller, the cloth shall be packed in bales or cases in conformity with the procedure laid down in IS : 1347-1972* or IS : 293-1980†.

7. SAMPLING AND CRITERIA FOR CONFORMITY

7.1 The scale of sampling and criteria for conformity as given in IS : 3919-1966‡ shall be followed in respect of physical characteristics, namely, ends and picks, mass, dimension and weave.

7.2 The scale of sampling and criteria for conformity as given in IS : 5463-1969§ shall be followed in respect of chemical characteristics, namely, colour fastness, dimensional changes and scouring loss.

*Specification for inland packaging of cotton cloth and yarn (*first revision*).

†Specification for seaworthy packaging of cotton cloth and yarn (*third revision*).

‡Methods for sampling cotton fabrics for determination of physical characteristics.

§Methods for sampling cotton fabrics for chemical tests.

(Continued from page 2)

Members

SHRI A. T. BASAK

SHRI B. D. DUBE (Alternate)

SHRI P. K. DAS

SHRI SAMIR MUKHERJEE (Alternate)

SHRI L. DESI GOWDA

SHRI K. K. ROHATGI

SHRI M. P. SHARMA (Alternate)

SHRI B. R. KOWSHIK

DR M. N. U. KURUP

SHRI N. K. NAGPAL (Alternate)

SHRI C. V. PRABHAKRAN

SHRI M. V. RAMACHANDRA (Alternate)

SHRI S. RANGARAJAN

SENIOR EXECUTIVE & SPECIAL OFFICER

SENIOR MANAGER (DESIGN AND PRODUCT DEVELOPMENT)

(Alternate)

SHRI T. O. THOMAS

Representing

Directorate General of Supplies & Disposals
(Inspection Wing), New Delhi

Directorate of Handloom & Textiles, Government
of West Bengal, Calcutta

Development Commissioner for Handlooms,
New Delhi
Government of Uttar Pradesh

Textiles Committee, Bombay
Ministry of Defence (DGI)

Khadi & Village Industries Commission, Bombay

Handicrafts and Handlooms Exports Corporation
of India Ltd, Madras

Tamil Nadu Handloom Weavers' Co-operative
Society Ltd, Madras

Kerala State Handloom Weavers' Co-operative
Society Ltd, Trivandrum

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 331 01 31, 331 13 75

Telegrams: Manaksantha
(Common to all Offices)

Regional Offices:

	<i>Telephone</i>
*Western : Manakalaya, E9 MIDC, Marol, Andheri (East), BOMBAY 400093	6 32 92 95
†Eastern : 1/14 C.I.T. Scheme VII M, V.I.P. Road, Maniktola, CALCUTTA 700054	86 24 99
Northern : SCO 445-446, Sector 35-C, CHANDIGARH 160036	{ 2 18 43 3 18 41
Southern : C.I.T. Campus, MADRAS 600113	{ 41 24 42 41 25 19 41 29 16

Branch Offices:

*Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMADABAD 380001	{ 2 63 48 2 63 49
'F' Block, Unity Bldg, Narasimharaja Square, BANGALORE 560002	22 48 05
Gangothri Complex, 5th Floor, Bhadbhada Road, T.T. Nagar, BHOPAL 462003	6 67 16
Plot No. B2/B3, Lewis Road, BHUBANESWAR 751002	5 36 27
53/5, Ward No. 29, R. G. Barua Road, 5th Byelane, GUWAHATI 781003	—
5-8-56C L. N. Gupta Marg (Nampally Station Road), HYDERABAD 500001	23 10 83
R14 Yudhistir Marg, C Scheme, JAIPUR 302005	{ 6 34 71 6 98 32
117/418 B Sarvodaya Nagar, KANPUR 208005	{ 21 08 76 21 82 92
Patliputra Industrial Estate, PATNA 800013	6 23 05
Hantex Bldg (2nd Floor), Rly Station Road, TRIVANDRUM 695001	7 66 37

Inspection Offices (With Sale Point):

Pushpanjali 205-A West High Court Road, Bharampeth Extension, NAGPUR 440010	2 51 71
Institution of Engineers (India) Building, 1332 Shivaji Nagar, PUNE 411005	5 24 35

*Sales Office in Bombay is at Novelty Chambers, Grant Road,
Bombay 400007

†Sales Office in Calcutta is at 5 Chowringhee Approach, P.O.
Princep Street, Calcutta 700072